

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Canceled)
2. (Canceled)
3. (Canceled)
4. (Canceled)
5. (Canceled)
6. (Canceled)
7. (Canceled)
8. (Canceled)
9. (Canceled)
10. (Canceled)
11. (Canceled)
12. (Canceled)
13. (Canceled)
14. (Canceled)
15. (Canceled)
16. (Canceled)
17. (Canceled)

18. (Canceled)

19. (Canceled)

20. (Canceled)

21. (Canceled)

22. (Canceled)

23. (Currently Amended) A method of deploying a stent apparatus in a bifurcated vessel, the bifurcated vessel comprises a main vessel having an ostium leading into a branch vessel, the method comprising:

providing a main stent, which has a proximal end, a distal end and a side opening between the proximal and distal ends, on a first catheter, wherein the main stent comprises a tubular member having a substantially constant diameter along its longitudinal axis;

advancing said first catheter via a first guidewire into the main vessel so that said side opening is substantially aligned with the ostium leading into the branch vessel;

expanding said main stent in its position;

removing said first catheter;

advancing via a second guidewire disposed in the branch vessel a second catheter, having a flareable stent in a state of compression, wherein said flareable stent comprises a proximal end and a distal end, and wherein said proximal end comprises a flareable portion initially in an unflared configuration;

positioning said second catheter within the branch vessel so that said proximal end of said flareable stent extends into the main vessel;

positioning said flareable stent with respect to the ostium by at least allowing said flareable portion in said unflared configuration to be flared radially; and

expanding said flareable stent in the branch vessel to deploy said flareable stent in its position within the branch vessel.

24. (Previously Presented) The method of Claim 23, wherein allowing said flareable portion to be flared is accomplished by removal of an outer sheath.

25. (Previously Presented) The method of Claim 23, wherein said second guidewire is introduced after said main stent has been expanded within the main vessel.

26. (Previously Presented) The method of Claim 23, wherein said second guidewire is introduced simultaneously with said first catheter and said main stent.

27. (Previously Presented) The method of Claim 23, wherein expanding of said main stent and said flareable stent are performed by balloon catheterization.

28. (Previously Presented) The method of Claim 23, wherein advancing said first catheter is done using radiopaque markers.

29. (Previously Presented) The method of Claim 23, wherein said flareable stent includes radiopaque markers.

30. (Canceled)

31. (Canceled)

32. (Canceled)

33. (Canceled)

34. (Canceled)

35. (Canceled)